ASSIGNMENT

WHEREAS, we, Lowell R. Tully, a resident of Elkhart, Indiana; Stephen A. Johnson, a resident of South Bend, Indiana; Dave Konieczny, a resident of Union Mills, Indiana; and Stephen R. Estes, a resident of South Bend, Indiana have invented certain new and useful improvements in ANGULAR ORIENTATION CONTROL SYSTEM FOR FRICTION WELDING MACHINES as fully set forth and described in our application for United States Letters, executed > 5-97; and

WHEREAS, Inertia Friction Welding Inc. a corporation of the State of Indiana of South Bend, Indiana is desirous of acquiring our entire right, title and interest in and to the said invention, and in and to Letters Patent of the United States and of any and all foreign countries which may issue therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we have assigned, sold and transferred and do hereby assign, sell and transfer unto said Inertia Friction Welding Inc. all of our right, title and interest in and to the aforesaid invention and in and to said provisional application, any other United States Patent Application based thereon, and any Letters Patent of the United States and of any and all foreign countries which may issue therefor, including all Letters Patent issuing upon any continuation, division, renewal or revival of the aforesaid patent and any reissue patent for the aforesaid invention, the same to be held and enjoyed by said Inertia Friction Welding Inc. for its own use and behoof, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

We hereby promise and agree, upon request, to execute all papers and all assignments necessary for the procurement of the United States and foreign Letters Patent and all assignments necessary to convey the legal title thereof to said Inertia Friction Welding Inc. and we hereby further promise and agree to perform all rightful acts that may be necessary and permissible in any interference proceeding or legal action in which said invention, patent applications or Letters Patent may become involved, for the purpose of proving the facts relating to our conception, development and completion of the aforesaid invention.

	Dated: 12-5-97 STATE OF CAL COUNTY OF SE GEGS STATE OF SECOUNTY	Lowell R. Tully
	Before me the undersigned, a No of he foregoing instrument this	tary Public in and for Ar (har County, State Lowell R. Tully and acknowledged the execution 1997.
	My Commission Expires County of Residence Dated: 12-5-97	Notary Public A Manidum of Notary Printed Name of Notary Stephen A. Johnson
	COUNTY OF LIFET)	SS:
	Before me the undersigned, a of, personally appearance execution of the foregoing instrum	Notary Public in and for Stephen County, State ared Stephen A. Johnson and acknowledged the nent this day of 1997.
	My Commission Expires A Gentle Commission Expires	Notary Public Printed Name of Notary
	County of Residence	A AA = ·

Dated: 12/5/97	Dave Konieczny
COUNTY OF WILL)	SS:
Before me the undersigned, a of, personally appeared of the foregoing instrument this	Notary Public in and for State County, State d Dave Konieczny and acknowledged the executionday of1997.
My Commission Expires	Motary Public
County of Residence Dated: 12/5/97	Printed Name of Notary Stephen R. Estes
STATE OF Solvey) COUNTY OF Solvey)	SIEVER R. Estes SS:
Before me the undersigned, a of, personally appeared of the foregoing instrument this	Notary Public in and for St June County, State ed Steven R. Estes and acknowledged the execution day of Occ 1997. Manual Manual Manual Notary Public
County of Residence	Printed Name of Notary





FORM PTO 1595

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

PATENTS ONLY

	Disease record the attached original documents or copy thereof.			
To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.			
Name of conveying party(ies) Lowell R. Tully, Stephen A. Johnson, Dave Konieczny, and Stephen R. Estes	2. Name and address of receiving party(ies) Inertia Friction Welding, Inc. P.O. Box 1108 South Bend, IN 46624			
Additional name(s) of conveying party(ies) attached? □Yes ⊗No				
3. Nature of conveyance:				
□ Security Agreement □ Change of Name				
□ Other:				
Execution Date: Dec. 5, 1997	Additional name(s) & address(es) attached? □ Yes ≅ No			
Application number(s) or patent number(s):	· ·			
If this document is being filed together with a new application, the execution date of the application is:				
A. Patent Application No. (s)	B. Patent No.(s)			
Additional numbers	sattached: □ Yes ⊠ No			
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1_			
concerning document should be was a	7. Total fee (37CFR 3.41)\$40.00			
Baker & Daniels 205 W. Jefferson Blvd., Suite 250	⊠ Enclosed			
South Bend, IN 46601	□ Authorized to be charged to deposit account			
	8. Deposit account number:			
	(Attach duplicate copy of this page if paying by deposit account)			
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9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.				
D Hell				
James D. Hall Date Name of person signing				
Total number of pages including cover sheet, attachments, and document:4				

Mail documents to be recorded with required cover sheet Information to:
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AUGUST 14, 1998

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JAMES D. HALL

205 WEST JEFFERSON BOULEVARD, SUITE 250

SOUTH BEND, IN 46601

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RECORDATION DATE: 12/09/1997

REEL/FRAME: 9222/0508 NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

TULLY, LOWELL R.

DOC DATE: 12/05/1997

ASSIGNOR:

JOHNSON, STEPHEN A.

DOC DATE: 12/05/1997

ASSIGNOR:

KONIECZNY, DAVE

DOC DATE: 12/05/1997

ASSIGNOR:

ESTES, STEPHEN R.

DOC DATE: 12/05/1997

ASSIGNEE:

INERTIA FRICTION WELDING, INC. P.O. BOX 1108

SOUTH BEND, INDIANA 46624

SERIAL NUMBER: 08987493

PATENT NUMBER:

FILING DATE: 12/09/1997

ISSUE DATE:

PTO/SB/51S (02-01)

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SUPPLEMENTAL DECLARATION FOR REISSUE PATENT APPLICATION TO CORRECT "ERRORS" STATEMENT (37 CFR 1.175)

Attorney Docket Number	- Common Hambon			
First Named Inventor				
COMPLETE				
Application Number				
Filing Date				
Group Art Unit				
Examiner Name				

I/We hereby declare that:

Every error in the patent which was corrected in the present reissue application, and which is not covered by the prior oath(s) and/or declaration(s) submitted in this application, arose without any deceptive intention on the part of the applicant.

I/We hereby declare that all statements made herein of my/our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	A political to a language
Given Name (5-1)	A petition has been filed for this unsigned inventor
Given Name (first and middle [if any])	Family Name or Surname
Inventor's Signature	Date
Name of Second Inventor:	Date
Circa Name (5	A petition has been filed for this unsigned inventor
Given Name (first and middle [if any])	Family Name or Surname
Inventor's	
Signature	Date
Name of Third Inventor:	A petition has been filed for this unsigned inventor
Given Name (first and middle [if any])	
(/1)	Family Name or Surname
Inventor's	
Signature	Date
Name of Fourth Inventor:	☐ A petition has been filed for this unsigned inventor
Given Name (first and middle [if any])	Family Name or Surname
Inventor's Signature	Date
Additional inventors are being named on thes	supplemental Additional Inventor(s) sheet(s) PTO/SR/02A attached house

[Page 1 of 1]

Burden Hour Statement: This form is estimated to take 0.03 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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Inertia Friction Welding, Inc.

By: Lowell R. Tulky

President

01-11-01 Dated:

Chicago, Illinois